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NEWS LOGIN

NEWS IPC8

TERMINAL (ENTER 1, 2, 3, OR ?):2

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* * * * * * * * * *
                     Welcome to STN International
                 Web Page for STN Seminar Schedule - N. America
NEWS
NEWS
         JUL 28 CA/CAplus patent coverage enhanced
NEWS
                 EPFULL enhanced with additional legal status
         JUL 28
                 information from the epoline Register
NEWS 4 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 5 JUL 28 STN Viewer performance improved
NEWS 6 AUG 01
                 INPADOCDB and INPAFAMDB coverage enhanced
NEWS 7 AUG 13 CA/CAplus enhanced with printed Chemical Abstracts
                 page images from 1967-1998
         AUG 15 CAOLD to be discontinued on December 31, 2008
NEWS 8
NEWS 9 AUG 15 CAplus currency for Korean patents enhanced
NEWS 10
         AUG 27
                 CAS definition of basic patents expanded to ensure
                 comprehensive access to substance and sequence
                 information
NEWS 11 SEP 18
                 Support for STN Express, Versions 6.01 and earlier,
                 to be discontinued
NEWS 12
         SEP 25 CA/CAplus current-awareness alert options enhanced
                 to accommodate supplemental CAS indexing of
                 exemplified prophetic substances
         SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and
NEWS 13
                 and Korean patents enhanced
NEWS 14
         SEP 29
                 IFICLS enhanced with new super search field
NEWS 15
         SEP 29 EMBASE and EMBAL enhanced with new search and
                 display fields
NEWS 16
         SEP 30 CAS patent coverage enhanced to include exemplified
                 prophetic substances identified in new Japanese-
                 language patents
NEWS 17
         OCT 07
                 EPFULL enhanced with full implementation of EPC2000
NEWS 18 OCT 07 Multiple databases enhanced for more flexible patent
                 number searching
NEWS 19
         OCT 22 Current-awareness alert (SDI) setup and editing
                 enhanced
NEWS 20
         OCT 22
                 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
                 Applications
NEWS 21 OCT 24 CHEMLIST enhanced with intermediate list of
                 pre-registered REACH substances
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
             AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.
```

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=> fil reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:40:55 ON 10 NOV 2008
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STRUCTURE FILE UPDATES: 9 NOV 2008 HIGHEST RN 1071762-23-6 DICTIONARY FILE UPDATES: 9 NOV 2008 HIGHEST RN 1071762-23-6

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http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\STNEXP\Queries\10559389.str

chain nodes :

ring/chain nodes :

1 2 3 4 5

chain bonds :

 $1-11 \quad 1-12 \quad 2-14 \quad 2-15 \quad 5-6 \quad 5-13 \quad 6-7 \quad 6-8 \quad 6-9 \quad 9-10 \quad 9-27 \quad 16-17 \quad 16-18 \quad 18-19$

18-28 20-21 21-22 22-23

ring/chain bonds :

1-2 1-5 2-3 4-5

exact/norm bonds :

1-2 1-5 2-3 4-5 9-10 9-27 18-19 18-28

exact bonds :

 $1-11 \quad 1-12 \quad 2-14 \quad 2-15 \quad 5-6 \quad 5-13 \quad 6-7 \quad 6-8 \quad 6-9 \quad 16-17 \quad 16-18 \quad 20-21 \quad 21-22 \quad 22-23$

G1:[*1],[*2]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s sss sam 11

SAMPLE SEARCH INITIATED 10:41:35 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1376 TO ITERATE

100.0% PROCESSED 1376 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 25295 TO 29745 PROJECTED ANSWERS: 0 TO

L2 0 SEA SSS SAM L1

=>

Uploading C:\Program Files\STNEXP\Queries\10559389A.str

chain nodes :

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 27 ring/chain nodes:
1 2 3 4 5 chain bonds:
1-11 1-12 2-14 2-15 5-6 5-13 6-7 6-8 6-9 9-10 9-27 16-17 16-18 18-19 20-21 21-22 22-23 ring/chain bonds:
1-2 1-5 2-3 4-5 exact/norm bonds:
1-2 1-5 2-3 4-5 9-10 9-27 18-19 exact bonds:
1-11 1-12 2-14 2-15 5-6 5-13 6-7 6-8 6-9 16-17 16-18 20-21 21-22 22-23

G1:[*1],[*2]

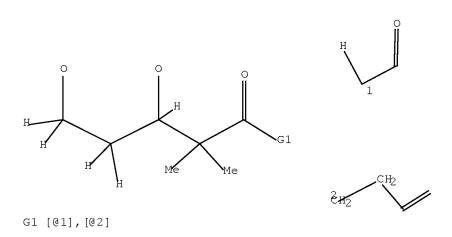
Match level:

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 27:CLASS

L3 STRUCTURE UPLOADED

=> d le
L3 HAS NO ANSWERS
'LE ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d 13 L3 HAS NO ANSWERS L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam 13 SAMPLE SEARCH INITIATED 10:44:13 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2005 TO ITERATE 99.8% PROCESSED 2000 ITERATIONS 0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

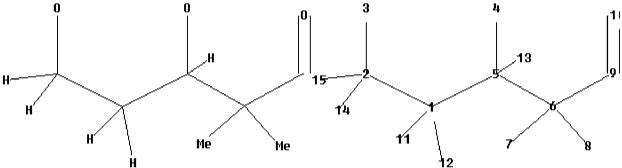
BATCH **COMPLETE**

PROJECTED ITERATIONS: 37414 TO 42786 PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=>

Uploading C:\Program Files\STNEXP\Queries\10559389B.str



chain nodes :

6 7 8 9 10 11 12 13 14 15

ring/chain nodes :

1 2 3 4 5

chain bonds :

1-11 1-12 2-14 2-15 5-6 5-13 6-7 6-8 6-9 9-10

ring/chain bonds :

1-2 1-5 2-3 4-5

exact/norm bonds :

1-2 1-5 2-3 4-5 9-10

exact bonds :

1-11 1-12 2-14 2-15 5-6 5-13 6-7 6-8 6-9

G1

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L5 STRUCTURE UPLOADED

=> D L5

L5 HAS NO ANSWERS

L5 STR

$$\begin{array}{c|c} & & & \\ & & & \\ H & & \\ H & & \\ &$$

Structure attributes must be viewed using STN Express query preparation.

2 ANSWERS

=> S SSS SAM L5

SAMPLE SEARCH INITIATED 10:45:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12924 TO ITERATE

15.5% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 251668 TO 265292 PROJECTED ANSWERS: 43 TO 473

L6 2 SEA SSS SAM L5

=> D SCAN

L6 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

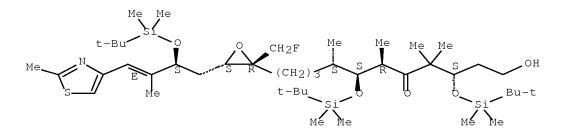
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 5-Undecanone, 3,7-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(2R,3S)-3-[(2S,3E)-2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3-methyl-4-(2-methyl-4-thiazolyl)-3-buten-1-yl]-2-(fluoromethyl)-2-oxiranyl]-1-hydroxy-4,4,6,8-tetramethyl-, (3S,6R,7S,8S)-

MF C45 H86 F N O6 S Si3

Absolute stereochemistry. Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s sss FULL 11

FULL SEARCH INITIATED 10:47:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 27721 TO ITERATE

100.0% PROCESSED 27721 ITERATIONS SEARCH TIME: 00.00.01

20 ANSWERS

L7 20 SEA SSS FUL L1

=> SAVE TEMP WEST10559389/A ENTER L#, L# RANGE, ALL, OR (END):END => SAVE TEMP WEST10559389/A L7
ANSWER SET L7 HAS BEEN SAVED AS 'WEST10559389/A'

=> FIL CAPLUS

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 183.88 184.09

FILE 'CAPLUS' ENTERED AT 10:48:41 ON 10 NOV 2008
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FILE COVERS 1907 - 10 Nov 2008 VOL 149 ISS 20 FILE LAST UPDATED: 9 Nov 2008 (20081109/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> S L7

L8 8 L7

=> S L8 AND (AY<2003 OR PY<2003 OR PRY<2003)

4499665 AY<2003 22959179 PY<2003 3967969 PRY<2003

L9 4 L8 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> D IBIB ABS HITSTR 1-4 L9

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:511314 CAPLUS Full-text

DOCUMENT NUMBER: 139:85166

TITLE: Method for producing C1-C6 fragments of epothilones

and the derivatives thereof

INVENTOR(S): Klar, Ulrich; Berger, Markus; Buchmann, Bernd;

Schwede, Wolfgang; Skuballa, Werner Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

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PATENT NO.
                       KIND
                               DATE
                                          APPLICATION NO.
                               20030703
    WO 2003053949
                        A1
                                          WO 2002-EP14758
                                                                  20021223 <--
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
            PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
            UG, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
            CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                        DE 2001-10164592
    DE 10164592
                         Α1
                               20030703
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                               20030709
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PRIORITY APPLN. INFO.:
                                           DE 2001-10164592
                                                               A 20011221 <--
                                                              W 20021223 <--
                                           WO 2002-EP14758
                       CASREACT 139:85166; MARPAT 139:85166
OTHER SOURCE(S):
GΙ
```

The invention relates to C1-C6 fragments I [R1a, R1b = H, C1-10-alkyl, aryl, C7-20-aralkyl, (CH2)m; m = 2 - 5; R2a, R2b = H, C1-10-alkyl, C1-10-alkenyl, C1-10-alkynyl, C7-20-aralkyl, (CH2)n; n = 2 - 5; R15a, R15b = H, C1-10-alkyl, aryl, C7-20-aralkyl, (CH2)q; q = 3 - 6] of epothilones and to an efficient method for producing such fragments and the derivs. thereof. Thus, (4S)-4-(2-methyl-3-oxohept-6-en-2-yl)-2,2-dimethyl-1,3-dioxane [I; R1a = R1b = Me, R2a = CH2CH:CH2, R2b = H, R15a = R15b = Me] was prepared from (3S)-1-hydroxy-2,2-dimethyl-3-(tetrahydropyranyloxy)-4-pentene, (S)-HOCH2CMe2CH(OTHP)CH:CH2, via O-benzylation with PhCH2Br, hydroboration with BH3-THF complex, dehydrotetrahydropyranylation-isopropylidenation with Me2C(OMe)2 in MeCOMe containing catalytic tosyl acid, hydrogenolytic debenzylation, Swern oxidation, Grignard reaction with MeMgBr, oxidn, with TPAT in CH2C12 contg, N0methylmorpholine N-oxide and alkylation with allyl bromide.

CN 6-нертеп-3-one, 2-[(45)-2,2-dimetny1-1,3-dioxan-4-y1]-2-metny1- (СА INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 552313-46-9 CAPLUS

CN 6-Octen-3-one, 2-[(4S)-2,2-dimethyl-1,3-dioxan-4-yl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 552313-55-0 CAPLUS

CN 6-Hepten-3-one, 2-(7S)-6,10-dioxaspiro[4.5]dec-7-yl-2-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 552313-56-1 CAPLUS

CN 6-Octen-3-one, 2-(7S)-6, 10-dioxaspiro[4.5]dec-7-yl-2-methyl- (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 552313-65-2 CAPLUS

CN 6-Hepten-3-one, 2-(2S)-1,5-dioxaspiro[5.5]undec-2-yl-2-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 552313-66-3 CAPLUS

CN 6-Octen-3-one, 2-(2S)-1,5-dioxaspiro[5.5]undec-2-yl-2-methyl- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 552313-76-5 CAPLUS

CN 6-Hepten-3-one, 2-methyl-2-[(4S)-2-phenyl-1,3-dioxan-4-yl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 552313-77-6 CAPLUS

CN 6-Octen-3-one, 2-methyl-2-[(4S)-2-phenyl-1,3-dioxan-4-yl]- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 552313-87-8 CAPLUS

CN 6-Hepten-3-one, 2-[(4S)-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]-2-methyl-(CA INDEX NAME)

Absolute stereochemistry.

RN 552313-88-9 CAPLUS

CN 6-Octen-3-one, 2-[(4S)-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 552313-98-1 CAPLUS

CN Benzonitrile, 2-[(4S)-4-(1,1-dimethyl-2-oxo-5-hexen-1-yl)-1,3-dioxan-2-yl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 552313-99-2 CAPLUS

CN Benzonitrile, 2-[(4S)-4-(1,1-dimethyl-2-oxo-5-hepten-1-yl)-1,3-dioxan-2-yl]- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:133222 CAPLUS Full-text

DOCUMENT NUMBER: 138:187562

TITLE: Preparation of protected

3,5-dihydroxy-2,2-dimethyl-valeroamides as

intermediates for the synthesis of epothilones and

derivatives

INVENTOR(S): Westermann, Juergen; Petrov, Orlin; Platzek, Johannes

PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT NO.	KIND	DATE	APPLICATION NO.	DATE			
	2003014063 2003014063	A2 A3	20030220 20030501	WO 2002-EP8726	20020805 <			
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				MC, NL, PT, SE, SK, ML, MR, NE, SN, TD,				
CA AU US	10138348 2456255 2002340805 20030158412	A1 A1 A1 A1	20030227 20030220 20030224	DE 2001-10138348 CA 2002-2456255 AU 2002-340805 US 2002-211242	20010803 < 20020805 < 20020805 <			
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PRIORITY	20080161580 APPLN. INFO.:	A1	20080703	US 2008-43401 DE 2001-10138348 US 2001-313015P CN 2002-815237 US 2002-211242 WO 2002-EP8726 US 2005-149331	20080306 < A 20010803 < P 20010820 < A3 20020805 < A3 20020805 < W 20020805 < A3 20050610			

OTHER SOURCE(S): MARPAT 138:187562

GI

AΒ The present invention discloses preparation of novel protected 3,5-dihydroxy-2,2-dimethyl-valeroamide derivs., such as I [R1, R2 = benzyl, 4-methoxybenzyl, 3,4-dimethoxybenzyl, THP, TBDMS, TMS, TES, TIP, TBDPS, MEM, MOM, allyl, trityl; R1R2 = ketal; Y = NA1A2; A1, A2 = alkyl, aryl, benzyl, OH, OMe, Obenzyl, heterocyclyl], and intermediates thereof for the synthesis of epothilones and epothilone derivs. Thus, 1-dimethylamino-2-methyl-1trimethylsilyl-propene (obtained by the reaction of N,N,2-trimethylpropionamide and trimethylsilyl chloride), was reacted with 3-(benzyloxy)-1propanal to provide N, N-dimethyl-5-benzyloxy-2, 2-dimethyl-3hydroxypentanamide, which on oxidation afforded N,N-dimethyl-5-benzyloxy-2,2dimethyl-3-oxo-pentanamide (II). II, on catalytic reduction in presence of RuCl2 and S-BiNAP, afforded I (R1 = CH2Ph; R2 = H; Y = NMe2), which was deprotected to afford I [R1, R2 = H; Y = NMe2 (III)]. III was reacted with acetone-dimethylketal to afford 3,5-dihydroxy-2,2-dimethyl-valeroamide derivative (IV).

IT 305840-13-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of protected 3,5-dihydroxy-2,2-dimethyl-valeroamide derivs.

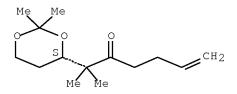
and

intermediates thereof in preparation of epothilones and epothilone derivs.)

RN 305840-13-5 CAPLUS

CN 6-Hepten-3-one, 2-[(4S)-2,2-dimethyl-1,3-dioxan-4-yl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:157050 CAPLUS Full-text

DOCUMENT NUMBER: 136:216592

TITLE: Procedures for the production of

12,13-cyclopropylepothilone derivatives, as well as

for their use in pharmaceutical preparations

PATENT ASSIGNEE(S): Schering Ag, Germany SOURCE: Ger. Offen., 64 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

GΙ

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10041470	A1	20020228	DE 2000-10041470	20000818 <
PRIORITY APPLN. INFO.:			DE 2000-10041470	20000818 <
OTHER SOURCE(S):	CASRE	ACT 136:21659	92; MARPAT 136:216592	

$$X^{1} = (CH_{2})_{m} - (CH_{2})_{p}R^{26}$$

$$X^2 = (CH_2)_m - (CH_2)_p R^{26}$$

The present invention describes new 6-alkenyl- and 6-alkynylepothilone AB derivs., e.g., I [R1a, R1b = H, C1-10-alkyl, aryl, C7-20-aralkyl; R1aR1b = (CH2)r, CH2OCH2; r = 1 - 5; R2a = H, C1-10-alkyl, aryl, C7-20-aralkyl, (CH2)m-aralkylC.tplbond.C-(CH2)pR26, (CH2)m-C:C-(CH2)pR26, X1, X2; n = 0 - 5; p = 0 - 3; m = 00 - 4; R2b = (CH2)m-C.tplbond.C-(CH2)pR26, (CH2)m-C:C-(CH2)pR26, X1, X2; R3a = H, C1-10-alkyl, aryl, C7-20-aralkyl; R3b = 0-protecting group; R4 = H, C1-10alkyl, aryl, C7-20-aralkyl, halogen, OH, O-protecting group, CN; R5 = H, C1-10-alkyl, aryl, C7-20-aralkyl, (CH2)s-T; S = 1 - 4; T = OH, O-protecting group, halogen; R6R7 = C(R33)2, NR32 AY = OC(:0), OCH2, CH2C(:0), NR29C(:0), NR29SO2; DE = CH2CH2, CH2O, OCH2; G = X:CR8-, bicyclic or tricyclic aryl; X = O, (O-alkyl)2, etc.; Z = H, H,OH, H,O-protective group; R8 = H, halogen, CN, C1-20-alkyl, aryl, C7-20-aralkyl; R14 = H, OH, halogen, O-SO2-alkyl, O-SO2aryl, O-SO2-aralkyl; R26 = H, C1-10-alkyl, aryl, C7-20-aralkyl, C1-10-acyl, OH, O-protecting group; R29 = H, C1-20-alkyl; R32 = H, C1-4-alkyl, C1-4-acyl; R33 = H, halogen], which interact with tubulins by stabilizing the formed microtubulins (no data). I are able specifically to affect cell division and are suitable, for example for the treatment of malignant tumors ovarial -, stomach -, colon -, adeno -, chest -, lungs -, head and neck carcinoma, malignant melanoma, acute lymphocytic and myelocytic leukemia. In addition I are suitable for the anti-angiogenesis therapy as well as for the treatment of chronic ignitable illnesses (psoriasis, arthritis). For the avoidance of uncontrolled cell rampant growths on as well as the better compatibility of medical implants I can be up and/or brought into polymers materials. According to invention, I can be used alone or for the achievement of additive or synergistic effects in combination with further principles and substance classes applicable in the tumor therapy. Exptl. data from patents PCT/EP00/01333 and PCT/IB00/00657 are reproduced here.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 12,13-cyclopropylepothilone derivs. and their use in pharmaceutical compns.)

RN 305840-13-5 CAPLUS

CN 6-Hepten-3-one, 2-[(4S)-2,2-dimethyl-1,3-dioxan-4-yl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:790507 CAPLUS Full-text

DOCUMENT NUMBER: 133:362656

TITLE: Preparation of 6-alkenyl-, 6-alkynyl- and

6-epoxyepothilone derivatives and their antitumor

activity

INVENTOR(S): Klar, Ulrich; Schwede, Wolfgang; Skuballa, Werner;

Buchmann, Bernd; Hoffmann, Jens; Lichtner, Rosemarie

PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 298 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

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OTHER SOURCE(S): MARPAT 133:362656

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The antitumor agents, 6-alkenyl-, 6-alkynyl- and 6-epoxyepothilones I (R1a, AΒ R1b are same or different = H, C1-C10 alkyl, C6-C12 aryl, C7-C20 aralkyl each optionally substituted; or together = (CH2)m m = 1-5 or -CH2OCH2-; R2a(R2b replace a with b) = H, substituted alkyl, aryl, aralkyl, (CH2)ra-C.tplbond.(or =)C-(CH2)pa-R26a, Q, Q1 where n = 0-5; ra, rb = the same or different and = 0-4; pa, pb = the same or different and = 0-3; R3a = H, substituted alkyl, aryl or aralkyl; R3b = OH, OPG14; R14 = H, OR14a, halogen and R14a = H, SO2-alkyl, SO2-aryl or SO2-aralkyl; R4 = H, substituted alkyl, aryl or aralkyl, halogen, OR25, CN; R26a, R26b = same or different = H, substituted alkyl, aryl or aralkyl, C1-C10 acyl or if pa or pb > 0, addnl. a group OR27; R25 = R27 = R22 = H, PG; R5 = H, substituted alkyl, aryl or aralkyl, (CH2)sT s = 1-4, T = OR22 or halogen; R6, R7 = H or together = bond or O; G = X=CR8 or bi- or tricyclic aryl radical and R8 = H, halogen, CN, or substituted alkyl, aryl or aralkyl; X = 0, two OR23 groups, C2-C10-alkylene- α , ω -dioxy straight chain or branched; H/OR9 or CR10R11 group and R23 = alkyl radical, R9 = H, PG, R10, R11 = same or different = H, substituted alkyl, aryl or aralkyl, or together with the methylene are a 5-7 carbocyclic ring; D-E = CH2CH2 or OCH2; A = OC(O), OCH2, CH2C(O), NR29C(O), NR29SO2 and R29 = H, alky1; Z = O or H/OR12 and R12 = H, PG) were prepared Thus II was prepared in a multistep synthesis starting from (4S)-4-(2-methyl-1-oxoprop-2-yl)-2, 2- dimethyl[1,3]dioxane and 5trimethylsilylpent-4-in-1-yl magnesium bromide. II had an IC50 value [nM] of 3.0 for the growth inhibition of human MCF-7 breast- and 75 for multidrug resistant NCI/ADR carcinoma cell lines with a selectivity of 2.5. The new epothilone derivs. interact with tubulin by stabilizing microtubuli that are formed. They are able to influence the cell-splitting in a phase-specific manner and are therefore useful in treating diseases or conditions associated with the need for cell growth, division and/or proliferation. Thus the epothilone derivs. are suitable for treating malignant tumors, e.g., ovarian, stomach, colon, adeno-, breast, lung, head and neck carcinomas, malignant melanoma, acute lymphocytic and myelocytic leukemia; and for anti-angiogenesis therapy as well as for treatment of chronic inflammatory diseases (such as psoriasis, arthritis).

IT 305840-13-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 6-alkenyl-, 6-alkynyl- and 6-epoxyepothilone derivs. and their use in pharmaceutical prepns.)

RN 305840-13-5 CAPLUS

CN 6-Hepten-3-one, 2-[(4S)-2,2-dimethyl-1,3-dioxan-4-yl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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